ERROR DETECTED SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a line not exceed 72 characters in length. This includes spaces: Incorrect Line Length The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Numbering This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. Sequence(s) ____ contain n's or Xaa's which represented more than one residue. Variable Length As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid Patentin ver. 2.0 "bug" _. Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. _ missing. If intentional, please use the following format for each skipped sequence: Skipped Sequences Sequence(s) _ (2) INFORMATION FOR SEQ ID NO:X: (OLD RULES) (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence. Skipped Sequences (NEW RULES) <210> sequence id number <400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence-Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. (NEW RULES) In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. are missing this mandatory field or its response. Use of <213>Organism Sequence(s) (NEW RULES) Sequence(s) 4 are missing the <220>Feature and associated headings. Use of <220>Feature Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (NEW RULES) Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted 13 _____ Patentin ver. 2.0 "bug" file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING DATE: 08/30/2000 PATENT APPLICATION: US/09/643,755 TIME: 14:32:19

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Output Set: N:\CRF3\08302000\1643755.raw

see p.4,6

Does Not Comply

Corrected Diskette Needed

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4 <110> APPLICANT: van Rooijen, Gijs
                Keon, Richard Glenn
                Boothe, Joseph
                Shen, Yin
      10 <120> TITLE OF INVENTION: Commercial Production of Chymosin in Plants
      12 <130> FILE REFERENCE: 9369-153
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/643,755
C--> 15 <141> CURRENT FILING DATE: 2000-08-23
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      33 1 5
                                                10
                                                                            15
      .
35 caa tac ttc gtt gct gtt act cac gct gct gag atc acc cgc att cct
      36 Gln Tyr Phe Val Ala Val Thr His Ala Ala Glu Ile Thr Arg Ile Pro 37 20 25 30
      39 ctc tac aaa ggt aag tct ctc cgt aag gcg ctg aag gaa cat gga ctt
      40 Leu Tyr Lys Gly Lys Ser Leu Arg Lys Ala Leu Lys Glu His Gly Leu
41 35 40
      43 cta gaa gac ttc ttg cag aaa caa cag tat ggc atc agc aag tac 44 Leu Glu Asp Phe Leu Gln Lys Gln Gln Tyr Gly Ile Ser Ser Lys Tyr 45 \phantom{0} 50 \phantom{0} 55 \phantom{0} 60
      47 too ggc tto ggt gaa gtt gct agc gtg cca ctt acc aac tac ctt gat 48 Ser Gly Phe Gly Glu Val Ala Ser Val Pro Leu Thr Asn Tyr Leu Asp
                                                                                         240
      51 agt caa tac ttt ggg aag atc tac ctc gga acc ccg cct caa gag ttc
                                                                                         288
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                           85
                                                  90
      55 acc gtt ctc ttt gat act ggt tcc tct gac ttc tgg gtt ccc tct atc
56 Thr Val Leu Phe Asp Thr Gly Ser Ser Asp Phe Trp Val Pro Ser Ile
57 100 105 110
      59 tac tgc aag agc aat gcc tgc aag aac cac caa aga ttc gat ccg aga 60 Tyr Cys Lys Ser Asn Ala Cys Lys Asn His Gln Arg Phe Asp Pro Arg 61 115 120 120 125
                                                                                         432
      63 aag teg tee ace tte cag aac tta gge aaa eec ttg tet ata cae tae
      64 Lys Ser Ser Thr Phe Gln Asn Leu Gly Lys Pro Leu Ser Ile His Tyr
         130
                                    135
                                                             140
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RAW SEQUENCE LISTING PATENT APPLICATION: US/09/643,755 DATE: 08/30/2000 TIME: 14:32:19

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76	Pro	Glv	Agn	Val	Phe	Thr	Tvr	Ala	Glu	Phe	Āsp	Ğĺy	Ile	Leu	Gly	Met	
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80	Δla	Tyr	Pro	Ser	Len	Ala	Ser	Glu	Tvr	Ser	Ile	Pro	Val	Phe	Asp	Asn	
81	nau	-1-	195	001	200			200	- 2 -				205		-		
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8/	Mot	Met	Agn	Ara	His	Leu	Val	Ala	Gln	Asp	Leu	Phe	Ser	Val	Tyr	Met	
85	1100	210	21511	**** 9		Dou	215					220			•		
. 97	a a c	agg	aat	aac	cad	αaσ		atα	ctc	acα	ctt		gct	att	gat	cca	720
00	Acn.	Ara	Acn	Glv	Gln	Glu	Ser	Met	Leu	Thr	Leu	Glv	Ála	Ile	Asp	Pro	
	225	лгу	USII	Gly	GIII	230	DCI	1100	200		235	1				240	
0.1	±00	tac	tac	aca	aaa		ctt	cac	taa	att		atic	act	ata	caq	caq	768
91	Cor	Tur	Tur	Thr	Glu	Ser	Len	His	Trn	Val	Pro	Val	Thr	Val	Gln	Gln	
93	Ser	171	171	1111	245	561	neu			250					255		
93	+ 20	+~~		++0		ata	aac	ant	atc		atc	age	ggt	ata		at.t.	816
95	merr	Trn	Cln	Dhe	Thr	Val	Acn	Ser	Val	Thr	Tle	Ser	Gly	Val	Val	Val	
97	TYT	пр	GII	260	1111		p	001	265				1	270			
00	003	tat	~==		ααa	tat	caa	act		tta	αat	acc	ggt	acq	t.cc	aaq	864
100	90α 1 λ1:	Lyt.	944 - 61:	990	994 7 G1s	, Cve	: Glr) Ala	Tle	Lei	ı Ası	o Th	r Glv	Th:	. Se	r Lys	
100		ı Cy.	27!		011	. 01-	, 011	280					28	5		•	
		ato			. agr	a a a c	gac			aac	at	t ca	g caa	a qct	ati	t gga	912
10.	l Lei	ı Va	990	y Pro	Set	Ser	· Asr	Tle	Leu	Ası	ı Il	e Gl	n Glı	n Ála	ı Ile	e Gly	
10		290		,	, ,,,,,		295					30	0			-	
				n aan	cac	t tac			ttt	gad	at	a qa	t tac	gad	aac	ctt	960
10	λ Δ1:	Th:	r Gli	n Ası	Glr	י דעד	GIV	Gli	Phe	Asr	110	e Ásı	p Cvs	Ası	Ası	n Leu	
	305					310					31	5	-	•		320	
11	l ago	tao	~ ato	a cct	aca			: tti	t gac	ato	aa	c qq	c aac	ato	ta:	cca	1008
111	Sei	ተ ጥህነ	r Mei	t Pro	Thr	· Val	. Val	Phe	e Ğlü	i Ile	As:	n Gl	y Lys	s Met	Ty:	r Pro	
11:					325					330)		-		33	5	
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111	5 Tei	Th:	r Pro	o Sei	^ A1a	TVI	Thi	: Sei	r Glr	Ası	G1:	n Gĺ	y Phe	Cys	Th:	r Ser	
11				340		1-			345				-	350)		
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12	1 Phe	- T16	a Are	a Glu	TVI	TVI	Sei	· Va.	l Phe	Ası	Ar	q Al	a Ası	n Ası	a Le	u Val	
12		370		,	1-	2 -	375			•		38	0				
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				a Lys													
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 PATENT APPLICATION:
 US/09/643,755
 TIME: 14:32:19

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PATENT APPLICATION: US/09/643,755

DATE: 08/30/2000
TIME: 14:32:19

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231 ttacttgtta ctttaatttc tcataatctt tggttgaaat tatcacgctt ccgcacacga 180
233 tatccctaca aatttattat ttgttaaaca ttttcaaacc gcataaaatt ttatgaagtc 240
235 ccgtctatct ttaatgtagt ctaacatttt catattgaaa tatataattt acttaatttt 300
237 agcgttggta gaaagcataa agatttattc ttattcttct tcatataaat gtttaatata 360
239 caatataaac aaattottta oottaagaag gatttoocat titatatitt aaaaatatat 420 241 tiatcaaata titttoaaco acgtaaatot cataataata agitgittoa aaagtaataa 480
243 aatttaacte cataattttt ttattegaet gatettaaag caacacecag tgacacaact 540
245 agccattttt ttctttgaat aaaaaaatcc aattatcatt gtattttttt tatacaatga 600
247 aaatttcacc aaacaatcat ttgtggtatt tctgaagcaa gtcatgttat gcaaaattct 660 249 ataattccca tttgacacta cggaagtaac tgaagatctg cttttacatg cgaagacacat 720
251 cttctaaagt aattttaata atagttacta tattcaagat ttcatatatc aaatactcaa 780
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259 tataacattt atggtggact aattttcata tatttcttat tgcttttacc ttttcttggt 1020
261 atgtaagtcc gtaactagaa ttacagtggg ttgccatggc actctgtggt cttttggttc 1080
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279
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285 tac ttc gtt gct gtt act cac gct gct gag atc acc cgc att cct ctc 286 Tyr Phe Val Ala Val Thr His Ala Ala Glu Ile Thr Arg Ile Pro Leu
             20
                                   25
                                                                           1700
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More specific source of genetic material in the artificial sequence See #12 on Error Summary

DATE: 08/30/2000 TIME: 14:32:19 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/643,755

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Output Set: N:\CRF3\08302000\1643755.raw

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ggc	ttc	ggt	gaa	gtt	gct	agc	gtg	cca	ctt	acc	aac	tac	ctt	gat	agt	1796
Gly	Phe	Gly	Glu	Val	Ala	Ser	٧al	Pro	Leu	Thr	Asn	Tyr	Leu	Asp	Ser	
_		_		70		•			75			_		80		
caa	tac	ttt	ggg	aag	atc	tac	ctc	gga	acc	ccg	cct	caa	gag	ttc	acc	1844
Gln	Tyr	Phe	Gly	Lys	Ile	Tyr	Leu	Gly	Thr	Pro	Pro	Gln	Glu	Phe	Thr	
	•		85	-		•		90					95			
gtt	ctc	ttt	gat	act	ggt	tcc	tct	gac	ttc	tgg	qtt	ccc	tct	atc	tac	1892
		100	-		-		105	-		•		110			•	
tac	aaq	agc	aat	qcc	tac	aaq	aac	cac	caa	aga	ttc	gat	cca	aga	aaq	1940
-1-	-				-2-	-				5				,	-1-	
t.ca		acc	ttc	caq	aac		aac	aaa	ccc	t.t a		ata	cac	tac	aat.	1988
							2	-2-						-1-	-	
	aat	agc	atα	caa		atc	tta	aac	tat		acc	atc	act	atc		2036
																2000
	1				1			1	-							
aac	att	ata	gac		caa	саσ	aca	αta		ctt	age	acc	caa		cca	2084
																2001
					0.2											
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tac	cca		ctc	aca	tca	σασ		tca	ata	cct	ata		gac	aac	atα	2180
-1-							- 2 -							***		
atσ		cga	cac	cta	αta		caa	gac	ttσ	ttc		att	tac	atα	gac	2228
																2220
		5											-1-		-	
	aat	aac	cag	σασ	-	atσ	ctc	acσ	ctt		act.	att	gat	сса		2276
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		0-1								011					501	
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- 1 -	-1-		-		200									0111	-1-	
taa	caa	ttc		ata	gac	agt	atc		atc	agc.	aat	ata		att	αca	2372
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																2120
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200					273					500					505	
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Color of the co

Met Asn Phe Leu Lys Ser Phe Pro Phe Tyr Ala Phe Leu Cys Phe Gly

VERIFICATION SUMMARY

DATE: 08/30/2000 TIME: 14:32:20

PATENT APPLICATION: US/09/643,755

Input Set : A:\Sequence
Output Set: N:\CRF3\08302000\1643755.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:429 M:258 W: Mandatory Feature missing, <220> FEATURE: L:429 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: